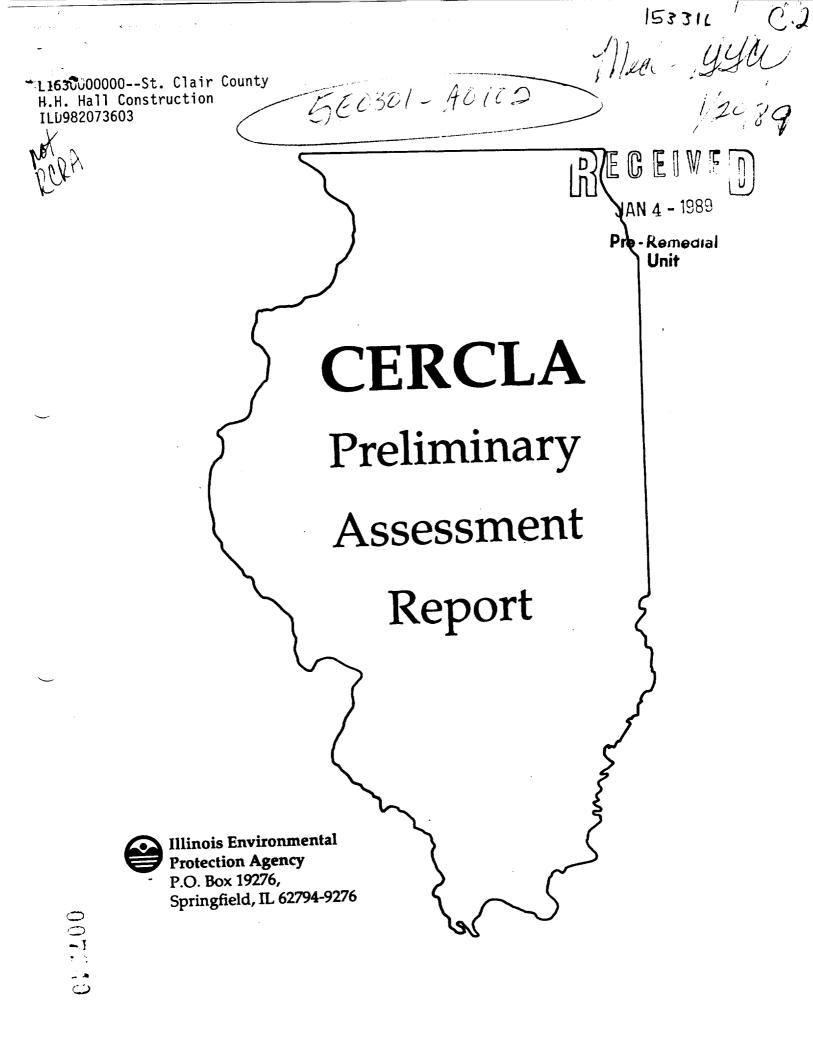
SDMS US EPA REGION V COLOR - RESOLUTION - 3 IMAGERY INSERT FORM

Multiple pages of this document include color or resolution variations and may be illegible in SDMS due to bad source documents. Unless otherwise noted, these pages are available in monochrome. (The source document page(s) are more legible than the images.) The original document is available for viewing at the Superfund Records Center.

SITE NAME	SAUGET AREA I
DOC ID#	153316
DOCUMENT VARIATION	_COLOR OR <u>X</u> RESOLUTION
PRP	RMD - SAUGET AREA I
Phase	SAS
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	RemedialRemovalDeletion Docket
РНОТОС	COMMENT(S) OPIES OF MAPS & PHOTOGRAPHS FRC 643



Subsurface Soils Semivolatiles

	SITE	SITE #	SITE N	DE MAK	SITE P	SITE P	SITE P	SITE P	SITE O	SITE D	SITE O	SITE B	SITE D	SITE 0	EL AMY
	SAMPLE NUMBER	9C-N1-05	BC-N2-06	BC-#8-07 +	BC-P1-53	DC-P2-54	BC-P5-55	DC-P5-54 t	OC-01-59	DC-02-60	DC-03-61	DC-04-62	DC-05-63	DC-05-64 1	DC-08-65
	SAMPLE BEPTH	0-10"	212.		0-10.	25'-35''' =	10'-25	1052.	15'-25'	20'-30'	1050.	0-10'	8.5'-20'	8.51-201	
	DATE SAMPLED	12-15-86	12-15-86	12-16-86	2-11-07	2-11-07	2-12-07	2-12-87	2-16-97	2-17-97	2-17-87	2-17-87	2-17-87	2-17-67	2-19-8?
	T Binethyl Phthalate				-										
	2 Acenaphtylene														
	3 3-Hitroaniline														
	4 Acenaphthene														
	5 2,4-Binitrophenol														
	6 4-Hitrophenol 7 Dibenzofuran														
	8 2.4-Binitrotoluene														
	9 2,6-Binitrotoluene														
	O Biethylphthalate														
	1 4-Chlorophenyl-Phenylether														
	2 Fluorene														
	3 4-Witreamiline														
	4 4,6-Binitro-2-methylphenol														
	5 N-Hitrosodiphenylamine											50000 J			
	6 4-Brooophenyl-phenylether														
	7 Hexachiorobenzene														
	8 Pentachlorophenol										22619	474359 J			
	7 Phenanthrone	424	502.1									217949	963 J		
	0 Anthracene										5357	22///	,,,,		
	l Bi-n-butyl phthalate				16250 J	155 J	43 1	325 J	5287		-		3790 J		2785
	77 Fluoranthene	684	253 J									43590 J			2,00
	3 Pyrene	553	215 J									282051			
	14 Butyl Benzyl phthalate											••••			
	5 3,3'-Bichlorobenzidine	-		•									* -		
	6 Benzo(a)Anthracene	263 J										121795			
	7 his(2-ethylhexyl) phthalate	934	1266					225 J	1379 8.	J	1905 PJ			2439 JB	1
	78 Chrysene	276 3										282031		1951 J	
	29 Di-m-octyl phthalate														
	0 Benzo(b)fluoranthene	289 J	152 J									79487 J			
	Si Benzo(k)Fluoranthene														
	32 Benzo(a)Pyrone	211 J										66667 J			
	33 Indeno(1,2,3-cd)Pyrene														
3															
	54 Benzolg,h,i)Perylene											52564 J			

Subsurface Soil Inorganics

Λ	SITE	ELLE 1	SITE J	SITE K	SITE K	SITE K	N WK	SITE (SITE L	SITE L	SITE L	STTE L	SITE N	SITE W	DLANK"	SITEP
7	SAMPLE NUMBER	DC-J2-12	DC-33-13	BC-K1-08	DC-K2-25	BC-k3-32	DC-LD-01 +	DC-L1-02	BC-L2-03	DC-L3-04	DC-L4-09	DC-L4-10 8	BC-N1-05	DC-M2-06	DC-N9-07 +	DE-P1-53
1.1	SAMPLE DEPTH	15'-25'	0-10.	0-16"	0-10,	10, 59,		5'-10'	5'-15'	51-151	10, 50,	10'-20'	6-10'	5"-15"		6-10"
	SATE SAMPLES	12-17-84	12-17-86	12-16-87	1-12-87	1-22-97	12-12-86	12-12-06	12-12-86	12-12-86	12-17-86	12-17-86	12-15-86	12-15-86	12-16-86	2-11-67
; -	Rusinus	3026	7522	4790	9073	10076	7397	10697	5265	7380	1120	1378	4763	1924	9385	5013
	2 Antiophy								32							
	3 Arsonic	2 1	4.1	7.1	8 R	7.6	4.1	5 1		172	55 #	48 1	3 1	2 \$	6.1	
1.7	4 Baraus	104	1 44	112	202	192	410	197	192	192	114	142	130	46	358	126
	5 Bervilius	*														
100	4 Boron															
	7 Cadeius		4	2	1	4			•						2	•
	8 Chromaum, travalent	7	\$5	351	22	15		16	15	10		3	8	5	13	16
les!	9 Cobalt	4	5	11				6	9	9			4	3	7	
1.	10 Copper		82	44	39	129	-	17	105	141	92	101	10	5	22	50
	ii Irom	7320	5409	17765	22439	20000	13846	14053	5564	11899	1500	1446	820	6253	16026	12750
11.0	12 Lead	5.1	10 1	107 1	132 R	238 R	43 1	9 1	104	41	5.1	5.0	24	34 1	7∂ ▮	
1,5	" 13 Manganese	113	827	699	388	404	342	255	44	149	10	10	164	87	429	291 €
	14 Mercury			2.2	0.4	0.2				0.1				9		3.9
	15 Nickel	0	72	20	20	21	14	21	408	2392	63	93	11		18	25 #
	16 Selenium															
	17 Silver															
	10 Thallsup															
[]-	17 Tin					13								-		
	20 Vanadius			16	29	27	22	25	10	19					21	19
	21 linc	24	70	235	245	503	178	59	144	166	11	10	42	45	192	463 1
	77 Cyanide			•		***	-				••	••		•		
				•												

Table 4-18

SUMMARY OF SUBSURFACE SOIL SAMPLING RESULTS FOR SITE N

Chemical Hame	Number of Times Detected*	Highest Concentration Detected (mg/kg)	Sample Containing Highest Concentration
Volatile Organics			
4-methyl-2-pentanone	1	0.004J	H1~05
Semivolatile Organics			
phenanthrene	, 2	0.43	W1~05
fluoranthene	2	0.68	N1~05
pyrene	2	0.55	N1~05
benzo(a)anthracene	1	0.26Ј	N1-05
chrysene	1	0.28J	N1~05
benzo(b)fluoranthene	2	0.29J	N1~05
benzo(a)pyrene	1	0.21J	N1-05
Pesticides/PCBs			

^{*} A total of 2 subsurface soil samples were collected from Site N. The numbers listed represent the number of samples, of the total of 2, in which each compound was detected.

Source: Ecology and Environment, Inc. 1988.

J Estimated value. Result is greater than zero, but less than specified detection limit.

DOCUMENT A

SUPPORTING DOCUMENT REFERENCE SHEET

DOCUMENT A	Analytical lab results from subsurface soil borings.
DOCUMENT B	Analytical lab results from surface water and sediment samples collected from Dead Creek adjacient to the site.
DOCUMENT C	Subsurface soil boring logs (N1, N2), soil description summary, and soil boring location map.

Source: IEPA, Division of Land Pollution Files, Superfund, E&E's Report on the Dead Creek, Sauget Sites.

Supporting

Documentation

DATE: 8/31/88 TIME: 9:15 AM Photograph by: JOHN MORGAN Location: H. H. HALL CONST. (SEAD CREEK) Comments: Picture taken toward NORTH PHOTO #5	
DATE: 8/31/88 TIME: 9:15 AM Photograph by:	

Photo# (

DATE: 8/31/88 TIME: 9:00 AM	
Photograph by:	
JOHN MORGAN	
Location:	
H.H. HALL	
CONSTRUCTION	
Comments: Picture taken toward	
WEST	
Photo#3	

DATE: 8/31/88

TIME: 9:05 AM

Photograph by:

JOHN MORGAN

Location: H. H. HALL

CONSTRUCTION

Comments: Picture taken toward

WEST:



PHOTO # 2

7/21/88	
DATE: $8/31/88$	
TIME: 8:45 AM	
Photograph by:	
JOHN MORGAN	
Location:	
H.H. HALL	
CONSTRUCTION	:
Comments: Picture taken toward	
WEST	
D/ + # 7	
Tho70 " 1	

DATE: 8/3//88

TIME: 9:10 AM

Photograph by:

JOHN MORGAN

Location: H.H. HALL

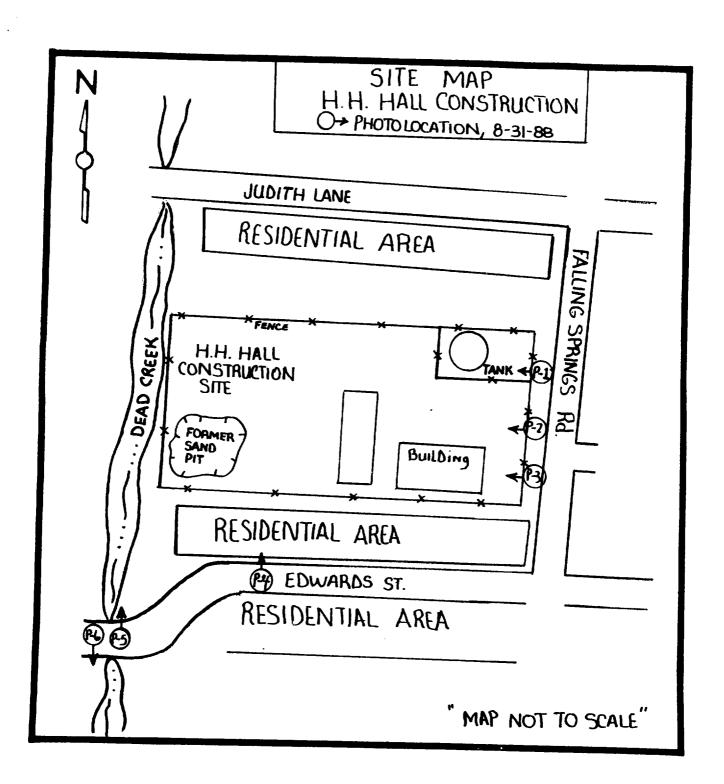
CONSTRUCTION

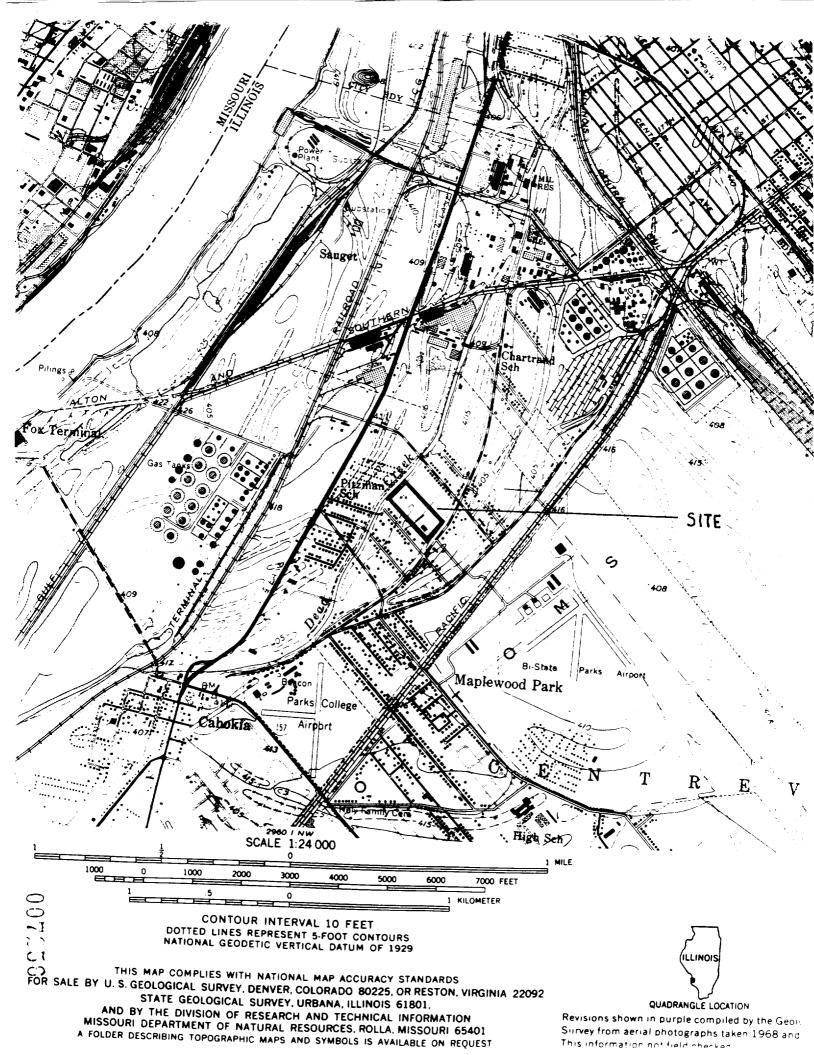
Comments: Picture taken toward

NORTH

PHOTO #4



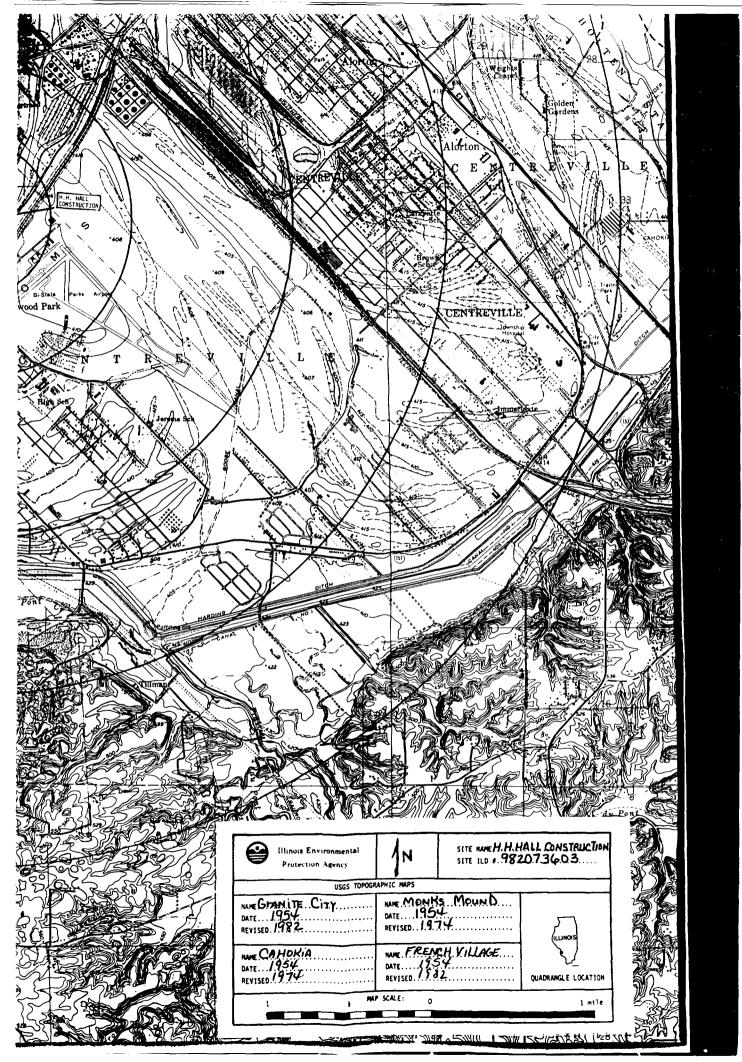


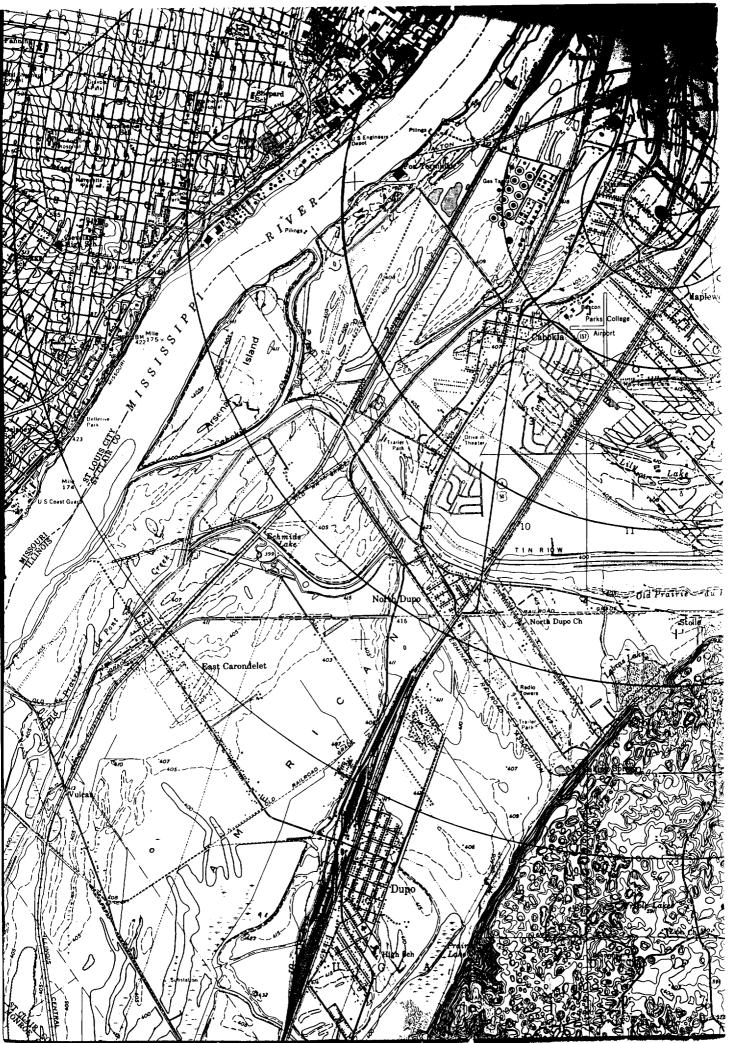


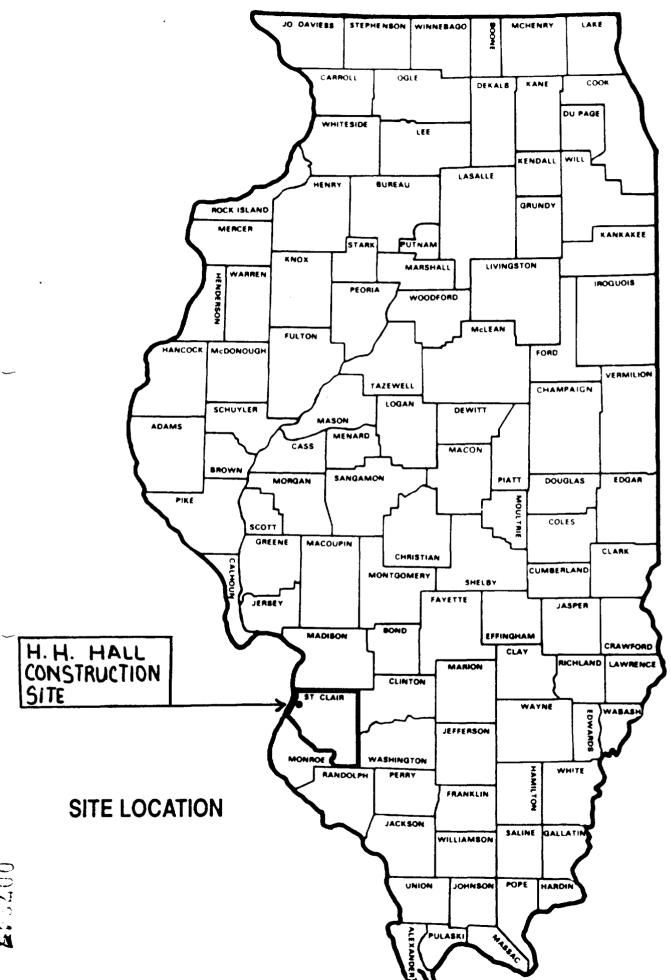












On August 13, 1988, IEPA personnel conducted an off-site reconnaissance inspection of the HHHC site. The site appeared to be abandoned at the time of the inspection and was completely surrounded by a secure metal fence. The disposal pit is located at the southwest corner of the property and was not easily visible due to overgrown vegetation and access restrictions. The property is bordered by residential areas on the north, south and east, and by Dead Creek on the west. The Mississippi River is located about 1 1/4 miles west of the site, and the remaining area is commercial.

H.H. Hall Construction Site has been assigned a medium priority for a site inspection. This decision is based on the adverse impact the site potentially poses to the surrounding population and environment.

JWM:tk:4/35/16-2

L1630000000 -- St. Clair County H.H. Hall Construction ILD982073603

November 30, 1988

EXECUTIVE SUMMARY

H.H. Hall Construction Company Site N (HHHC) is one of eighteen suspected hazardous waste sites in the St. Clair County area investigated by Ecology and Environment, Inc. (E & E) under contract by the Illinois EPA. The purpose of the Dead Creek project was to gather sufficient data to apply the HRS model and characterize site conditions.

The HHHC site is an operations and equipment storage facility owned and operated by H.H. Hall Construction Company of East St. Louis. The entire facility covers approximately 23 acres and is located at 3525 Falling Springs Road in the town of Cahokia. The site is bordered on the north by residential property along Judith Lane; on the west by Dead Creek; on the south by residential property along Edwards Street; and on the east by a residential area along Falling Springs Road. Historical area photographs indicate that land excavations were first evident in the early 1950's. According to E & E, the excavation observed in the aerial photograph is currently present as a borrow pit located in the southwest corner of the property. Company officials claim that concrete rubble and other demolition construction debris are the only wastes disposed of in the pit by Hall Construction.

The pit is situated in an unconsolidated alluvium and glacial outwash environment. This section is underlain by Mississippian Age bedrock and older bedrock formations. The alluvium and glacial outwash deposit consists of two layers, the Cahokia Alluvium and the Mackinaw Member of the Henry Formation. These two formations are hydraulically interconnected and have a composite thickness ranging from 70 to 120 feet thick. Sand and gravel deposits within this section supply water to several local industries and to private residents in the area, who are unable to obtain water from public supplies due to distribution restrictions. The primary source of public drinking water is supplied from the Mississippi River at a water intake three miles upstream from the site. The closest downstream intake is 28 miles south of the site and supplies drinking water to the Village of Crystal, Missouri.

A soil gas survey of the site conducted by E & E revealed that five of the eight locations tested had concentrations of volatile organic soil gases substantially above background concentrations. Two of these locations had concentrations greater than 1000 mg/L. On December 15, 1988, E & E drilled two subsurface soil borings (N-1, N-2) to a depth of 20 and 40 feet deep. Analysis of soil samples taken from the two borings revealed the presence of organic contaminants in both samples. The contaminants detected consisted of phenanthrene, fluoranthene, pyrene, and benzo(a)pyrene. The highest concentration detected was 0.68 mg/kg of fluoranthene. A total organic concentration of 3.6 mg/kg was detected in sample N1-05. The sample was composited from the surface to a depth of 10 feet.

Subsurface Soils Secivolatiles

1		SITE	SITE #	SITE N	TEAK	SITE P	SITE P	site y	"SITE P	SITE O	SITE O	SITE D	SITE O	SITE 0	S11E 0	PL ANK
		SAMPLE MUMBER	BC-N1-05	BC-H2-66	BC-MB-07 +	BC-P1-53	BC-P2-54	BC-P5-55	BC-P5-56 \$	BC-01-59	DC-02-40	DC-03-61	BC-04-62	DC-05-43	DC-05-64 B	DC-88-65 +
•		SAMPLE BEPTH	0-10'	51-151		0-10.	2535.	10-75	1052.	15'-25'	50,-20,	1050.	0-10'	8.5'-70"	8.31-271	
•		DATE SAMPLED	12-15-86	12-15-06	12-16-86	2-11-87	2-11-07	2-17-87	2-12-07	2-16-07	2-17-07	2-17-87	2-17-87	2-17-87	2-17-67	2-19-67
•					_											
1		Binethyl Phthalate			-											
•]		Aconaphtylone														
•	3	3-Mitroansline			-											
٥(•	Aconophthone														
1		2,4-Binitrophenel														
4		4-Nitraphenol														
3		Dibenzofuran														
4		2,4-Binstrotoluene														
·*.		2,å-Binitrotoluene	_													
• '		Diethylphthalate								-						
4		4-Chlorophenyl-Phenylether														
•		Fluorene														
		4-Hitreaniline						······································							-	
o¦	14	4,6-Dinitro-2-methylphenol														
: 1	15	N-Nitrosodiphonylasine											50000 J			
	16	4-Broophenyl-phonylether"														
اد	17	Hexachlorobenzene	_													
	10	Pentachlorgahenol	_									22619	474359 J			
	19	Phenanthrene	434										217949			
	20	Anthracene										5357				
		Di-n-butyl phthalate				16250 J	155 J	12 1	325 J	5287				3700 J		27 9 5 J
		Fluoranthene	185-	253 J									43390 J	0,00		
		Pyrene	553	215 J									202051			
٦,		Butyl Benzyl phthalate	•••	• • • • • • • • • • • • • • • • • • • •									101071			
"J		3,3-Bichlerobenzidine														
11		Senzo(a)Anthracene	243 J										121795			
		bis(2-ethylhexyl) phthalate	934	1266					· 225 J	1379 8	1	1905 BJ			2439 JE	
			774 J		•		-		413 4	13/7	v	1703 14	2 82 051		1951 J	
·•		Chrysene	2/6 1										282031		1451 J	
בי		Bi-n-octyl phthalate	204 1	152 J									70407 1			
		Benzo(b)Fluorantheme	289 J	152 3									79487 J			
'		Benzo(k)Fluoranthene														
14		Benzo(a)Pyrone	211 J										66667 J			
!		Indeno(1,2,3-cd)Pyrane					_						****			
100		l Benzo(g,h,i)Perylene					-						52564 J			
n{	35	Dibenz(a,h)Anthracene														
o.																

Explanation For Analytical Data Summary Tables

All ground water results in ug/l.

All soil/sediment organic results in ug/kg

All soil/ sediment inorganic results in mg/kg

For sample location headings, the following qualifiers are used :

+ Denotes blank samples.

* Denotes duplicate samples.

Denotes that sample was not analyzed for the compounds listed.

For chemical results, the folling qualifiers are used :

B Compound detected in blank samples.

J Estimated value. Result is less than the specified detection limit, but greater than zero.

E Estimated value. Concentration detected exceeds the calibrated range.

Result confirmed by GC/MS.

* Duplicate analysis not with in control limits.

R Spike sample recovery not with in control limits.

DOCUMENT B

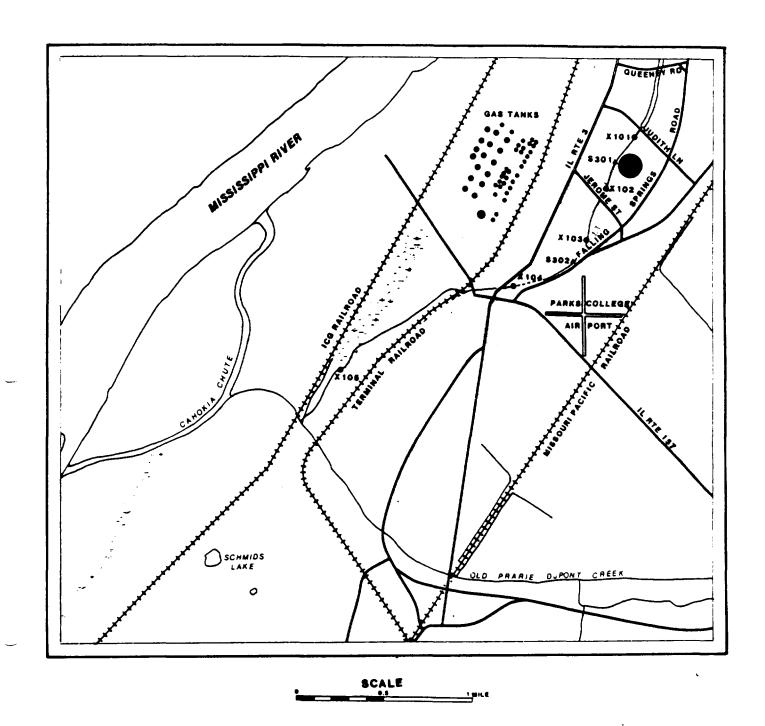
TABLE C-1: ANALYSIS OF SURFACE WATER AND SEDIMENT SAMPLES FROM CREEK SECTORS C THROUGH F (COLLECTED BY IEPA 9-25-80)

SAMPLE LOCATIONS

	W	ater		Se	ediment		
PARAMETERS	2301	S302	x101	x102	×103	x104	×105
Aluminum			12,000				
Arsenic	0.008	0.006	26				
Barium	0.12	0.08	1,300	4,700	210	390	475
Berylium	-	-	-	3	-	2	-
Boron	0.06	0.04	-	76	-	-	-
Cadmium	-	-	•	50	8	31	2
Calcium			24,000	5,300	210,000	16,000	13,000
Chromium	-	0.01	400	50	60	50	-
Cobalt			40	32	6	8	9
Copper	0.26	0.04	15,000	17,200	320	1,800	360
Iron	0.66	0.87	57,000	110,000	11,000	19,000	18,000
Lead		-	800	1,300	260	250	75
Magnesium	3.	2	7,100	2,000	10,000	5,100	3,300
Manganese	0.03	0.12	600	170	210	160	200
Mercury			1.2				
Nickel	0.05	0.01	2,000	2,300	45	600	-
Phosphorus	0.19	0.2		6,200	720	1,200	4,200
Potassium	6.6	3.3	2,400	900	1,400	2,100	1,400
Silver	-	-	-	45	10	-	-
Sodium	3	3	800	1,100	100	190	125
Strontium	0.08	0.07	100	140	210	47	43
Vanadium	-	-	-	50	22	31	35
Zinc	0.24	-	12,000	21,000	900	5,600	780
PCB	-	-	0.12	0.12	2.8	2	- '

NOTE:

All results in ppm.
Blanks indicate parameter not analyzed.
- Indicates below detection limits.



LEGEND
X101 SEDIMENT SAMPLING LOCATION
S301 SURFACE WATER SAMPLING LOCATION
RESIDENTIAL AREA

FIGURE C-1
IEPA SAMPLING LOCATIONS CREEK SECTORS C THROUGH F

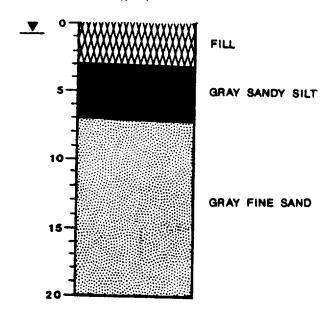
DOCUMENT C

Project Name	Dead Creek
Project No.	IL 3140
Date Prepared	12-15-86
Prepared by	Kevin Phillips

Depth (ft)

Description

N - 1



Boring (Wall Mo	W_1
Location Site N	N-1
Location Site N	<u> </u>
Owner IEPA	
Top of Inner Casi	ng Elev. NA
Drilling Firm F	ox drilling ammon n Dates 12/15,12/15/8
Driller Jerry H	ammon
Start & Completio	n Dates12/15.12/15/8
Type of Rig Moh	ile B-61
Type of kig Hob	116 8-01
W-15-3 -4 5-1337-	
Method of Drillin	g 3 3/4" I.D.
hollow stem aug	028
WEL	L DATA
Hole Diam. 8 in	
Boring Depth 20	.0 ft.
Screen Interval	
Screen Type	
Sticker Type	
Sciekup	· · · · · · · · · · · · · · · · · · ·
Stickup Well Type	
Meti Construction	l :
Filter Pack	
Seal	
Grout	
Lock No.	· · · · · · · · · · · · · · · · · · ·
TE	ST DATA
Static Water Elev	Date
Static Water Elev	Yes No
Slug Test	Yes No
Test Date	
Hydraulic Conduct	2.00
mydraulic Conduct	
Other	
.	
	QUALITY
Samples Taken	YesNo_X
No. of Samples	
Types of Samples	
Date Sampled	
Samplers	
Samples Amalusad	for
sembres vustiksed	
	· · · · · · · · · · · · · · · · · · ·
-	
	<u></u>
Split Samples	YesNo_X
Recipient	
Comments Subsur	face soil samples
from boring 0 -	10' analyzed for
HSL compounds.	
compounds.	
-	REMARKS

Project Name D	ead Creek		Boring/Well No. N-2	
Project No. IL	3140	-	Location Site N	
Date Prepared	12-15-86	-	Owner IEPA	
Prepared by Ke	vin Phillips	-	Top of Inner Casing El	ev. NA
			Drilling Firm Fox dr	illing
Depth (ft)	Description		Driller Jerry Hammon	
•			Start & Completion Dat	
			Type of Rig Mobile B	-61
	N — 2			
			Method of Drilling 3 3	/4" I.D. hollow
			stem augers and rota	rv
	***************************************		WELL DAY	
-1,,,,,,,,			Hole Diam. 8 in.	
-1644444	KKKKKKKKKKKK		Boring Depth 40.0 ft	•
5-WW	XXXXXXXXXXXXI FILL		Casing and Screen Diam	•
JAAAAL			Screen Interval	
744444	***************************************		Screen Type	
7,,,,,,,	KAAAAAAAAAAA		Stickup	
-1 44444	*****		Well Type	<u></u>
			Well Construction:	
10-4444	*****		Filter Pack	
			Seal	
	DARK	GRAY SANDY SILT		
			Lock No.	

			TEST DA	TA .
15-				
_			Static Water Elev	Date
			Static Water Elev.	Date
			Slug Test Yes	No
			Test Date	
			Hydraulic Conductivity	-
20-			Other	
-				
	GRAY	•	 	
		•	WATER QUAL	TTT
			With the second second	
25-	FINE	- MED SAND	Samples Taken Yes_	No Y
-			No of Samples	
			No. of Samples Types of Samples	
			Types of Samples	
7		•		
			Data Samalad	
30-			Date Sampled	
			Samplers Samples Analyzed for	
_			Samples Wrathred tot _	
			0-14h 01 V	
35-				No X
			Recipient	
-				
			Comments Subsurface	soil samples
			from boring 5 - 15'	analyzed for
			HSL compounds.	
40				
			REMARK	. 5

Site Dead Creek Site-N Boring/Well No. N-1
--

Sample Depth Blow Count

Description

1 - 2.5	4-6-10	0-2.5 FILL consisting of crushed limestone, gravel, and fine to coarse grain sand. Wet.
		Fill discontinues @ 3'.
3.5 - 5	3-9-9	$\frac{3.5-4}{4-5}$ Stiff gray very sandy SILT. Some fine grain sand. Wet.
6 - 7.5	2-4-3	6-7 Loose gray very sandy SILT. Some fine grain sand. Black and reddish staining throughout. Wet. 7-7.5 Loose brownish gray fine to medium grain SAND. Some reddish staining. Wet.
8.5 - 10	2-4-7	Loose gray sandy SILT. Some fine grain sand. Trace of organic material (wood, etc.). Stained black. Wet.
11 - 12.5	1-2-5	Loose brown very silty fine grain SAND. Some silt. Black stained layer at 12' (-1")
13.5 - 15	1-3-3	Same as above.
16 - 17.5	2-5-7	Firm gray silty fine grain SAND. Trace of small to medium gravel. Wet.
18.5 - 20	2-3-7	Firm gray fine grain SAND. Wet.
		E.O.B. @ 20'

Site Dead Creek Site-N

Boring/Well No. N-2

Sample Depth Blow Count	Description							
	0-1 Crushed limestone fill							
- 2.5 9-10-12	1-2 Crushed lime fill 2-2.5 FILL consisting of loose dark gray very sandy SILT. Some fine							
	grain sand. Trace of organic material (wood & roots).							
.5 - 5 พ	No recovery - possible rubber tire							
- 7.5	No recovery - possible concrete							
47-6-2	FILL consisting of dark gray silty clay with concrete material and gravel. Fill discontinues @ approx. 10'.							
1 - 12.5 6-10-9	Firm dark gray very sandy SILT. Some very fine grain sand. Trace of organic material (wood and roots). Black streaks. Wet.							
3.5 - 15 3-4-4	Firm gray fine to medium grain SAND. Trace of small to medium gravel Wet. Sand is rounded to sub angular and fairly well to poorly sorted							
6 - 17.5 7-11-12	Gray fine to medium grain SAND. Trace of small gravel. Wet.							
8.5 - 20 8-12-14	Dense brown fine to medium grain SAND. Well sorted. Wet.							
1 - 22.5 9-13-15	Same as above.							
3.5 - 25 9-11-15	Dense gray fine to medium SAND. Trace of coarse grain sand and small gravel. Wet.							
6 - 27.5 8-12-13	Dense gray fine to coarse grain SAND. Trace of small gravel. Wet.							
8.5 - 30 9-14-23	Same as above.							
1 - 32.5 7-9-11	Dense gray very fine grain SAND. Wet.							
3.5 - 35 6-8-10	Same as above. Darker gray.							
6 - 37.5 12-17-23	Very dense. Gray fine to coarse grain SAND. Wet.							
8.5 - 40 8-9-12	Same as above.							
	E.O.B. @ 40'							

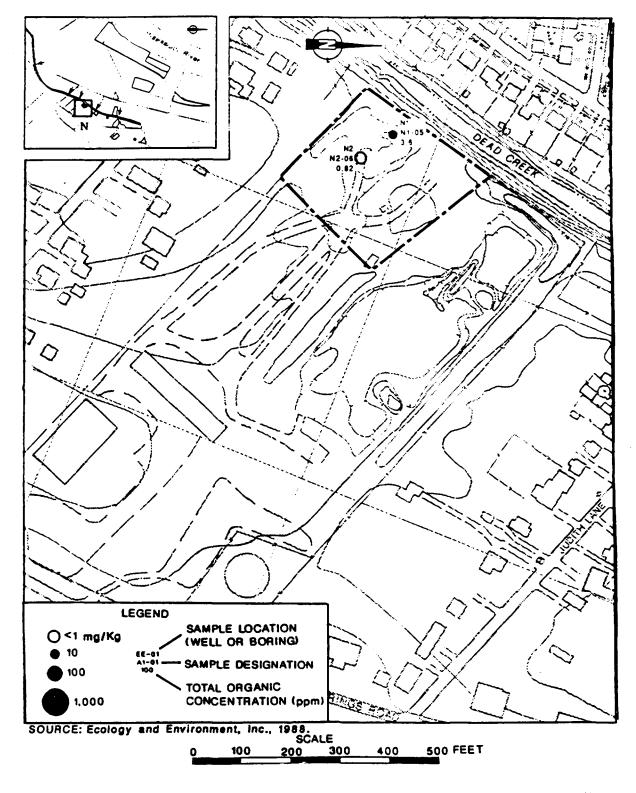


FIGURE 4-45 TOTAL ORGANIC CONCENTRATIONS IN SUBSURFACE SOILS AT SITE N

Hazard Ranking System

Preliminary Score Projected Score

Confidential

	Facility Name : H.H. Hall Construction
	Location : 3525 Falling Springs Road, Cahokia, Illinois
	EPA Region : Five
	Person(s) In Charge of the Facility : Howard H. Hall
	Name of Reviewer : John W. Morgan Date : _11-22-88
J	General Description of the Facility: (For example, landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
	H.H.Hall Construction site is an operations and equipment storage
	facility owned and operated by H.H. Hall Construction Company of
	East St. Louis. The entire facility covers approximately 23 acres
	and contains an abandoned disposal pit. Results from an investigation
	conducted by E&E indicate contamination in two subsurface soil boring.
	Based on these finding, a preliminary assessment and Pre/Projected HRS_
المس	Score was conducted under the Pre-Remedial CERCLA Program.
	HRS Scores : Sm = 25.74 (Sgw = 43.25 Ssw = 10.63 Sa =0.00)
	Pro Scores : Sm = 25.74 (Sgw = 43.25 Ssw = 10.63 Sa =0.00)

Figure 1 HRS Cover Sheet

File Name : A:\HALLCON

HRS Ground Water Route Work Sheet			
Rating Factor Assigned Value Multi	Score	Max. Score	Ref. Section
[1] Observed Release 0 45 i	45	__ 45	3.1
If observed release is given a score of 45, pro If observed release is given a score of 0, proc			
[2] Route Characteristics Depth to Aquifer of 0 1 2 3 2 Concern	0	6	3.2
Net Precipitation 0 1 2 3 1	0	3	
Permeability of the 0 1 2 3 1	0	3	
Unsaturated Zone Physical State 0 1 2 3 1	0	3.	
Total Route Characterístics score	0	15	
[3] Containment 0 1 2 3 1	0	3	3.3
[4] Waste Characteristics Toxicicty/Persistence 0 3 6 9 12 15 18 1 Hazardous Waste 0 1 2 3 4 5 6 7 8 1 Quantity	18	18 8	3.4
Total Waste Characteristics score	19	26	
[5] Targets Ground Water Use 0 1 2 3 3 Distance to Nearest 0 4 6 8 10 1 Well/Population 12 16 18 20 Served 24 30 32 35 40	9 20	9 · 40	3.5
Total Targets score	29	49	
[6] If line [1] is 45, multiply [1] X [4] X [5] If line [1] is 0, multiply [2] X [3] X [4] X [5]	2.5E	57,330	
[7] Divide line [6] by 57,330 and multiply by 100	S = 4	13.25	

File Name : A:\HALLCON

		HRS S	urface	Wate	r Ro	ute (Work	Sheet			
Ratir	ng Factor	As	signed	Valu	е			Multi plier	Score	Max. Score	Ref. Section
[1]	Observed R	elease	0		45			1	45	45	4.1
	If observe If observe										
[2]	Route Char Facility		d c) 1	2	3		1	0	3	4.2
. ,	1-yr. 24 h Distance t Surface W	r. Rainf o Neares		1	2 2	3 3		1 2	0	3 6	
	Physical S		C	1	2	3		1	0	3	
		Total R	oute Ch	arac	teri	stics	ssco	re	0	15	
[3]	Containmen	t	C) 1	2	3		1	0	3	4.3
[4]	Waste Char Toxicicty Hazardous Quantity	/Persist	ence C						18	18 8	4.4
		Total W	aste Ch	arac	t e ri	stics	ssco	re	19	26	
[5] <u></u>	Targets Surface W Distance Environm	to Sensi ent	tive C	1	2	3		3 2	6 2	9	4.5
	Distance Intake D	to Wate ownstrea		30			40		0		
		Total T	argets	scor	е				8	5 5	
	If line [1 [f line [1]								6.8E	64,350	
[7]	Divide lin	e [6] by	64,350	and	mu1	tiply	by	100 5	S = 1	.0.63	

file Name : A:\HALLCON

	HRS A	ir Route	Work She	et				
Rating Factor	Assi	gned Val	ue		Multi plier	Score	Max. Score	Ref. Section
[1] Observed Re	lease	٥	45		1	0	45	5.1
Date and Loc Sampling Pro								
If line [1] If line [1]								
[2] Waste Charac Reactivity a		0 1	2 3		1		3	5.2
U Incompatibi		•			-		Ū	
Toxicity		0 1	2 3		3		9	•
Hazardous Was	ste	0 1 3	23456	78	1		8	
	Total Rou	te Chara	cteristic	s scc	re		20	
[3] Targets								5 .3
Population					1		30	
4-Mile Radi				0	_		,	
Distance to Environment		e 0 1	2 3		2		6	
Land Use	-	0 1	2 3		1		3	
	Intal Tar	nete Sco	^=				39	
Total Targets Score 39								
(4) Multiply (1)) X [2] X	[3]					35,100	
[5] Divide line	[4] by 3	5,100 and	d multipl	y by	100 8	a =		0

	PRO Grout	nd Wa	ter	Ro	ute W	ork S	Sheet			
Rating Factor	Assign	ned V	alue	9			Multi plier	Score	Max. Score	Ref. Section
[1] Observed Re	lease	0		4	5		1	45	45	3.1
If observed If observed		_								
[2] Route Charac Depth to Ac Concern		0	1	2	3		2	0*	6	3.2
Net Precipit Permeability Unsaturated	of the	0	1	2	3 3		1	0* 0*	3 3	
Physical Sta		0	1	2	3		1	0*	3	
	Total Route	Cha	ract	er.	istic	s scc	ore	0	15	
[3] Containment		0	1	2	3		1	0*	3	3.3
[4] Waste Charac Toxicicty/F Hazardous F Quantity	Persistence				12 15 4 5 6			18 1	18 8	3.4
	otal Waste	Chai	ract	er	istic	s scc	re	19	26	-
[5] Targets Ground Wate Distance to Well/Popul Served	Nearest	0 0 12 24	1 4 16 30	1	2 3 5 8 3 20 2 35	10	3 1	9 20	9 40	3.5
	Total Targe	ts so	core	• • • • • • • • • • • • • • • • • • •				29	49	
[6] If line [1] If line [1] i								2.5E	57,330	
[7] Divide line	[6] by 57,	3 3 0 a	and	mu	ltipl	y by	100 5	S = 4	13.25	

A '*' represents a data gap between the Pre and the Pro

File Name : A:\HALLCON

	PRO Surfac	ce Wate	r Route	Work	Sheet			
Rating Factor	Assigne	ed Valu	e		Multi plier	Score	Max. Scor e	Ref. Section
[1] Observed Re	leas e (>	45		1	45	45	4.1
If observed If observed								
[2] Route Charac Facility S Interveni	lope and	0 1	2 3		1	0*	3	4.2
1-yr. 24 hr Distance to Surface Wa	. Rainfall Nearest	0 1 0 1			1 2	0* 0*	3 6	
Physical St.		0 1	2 3		1	0*	3	
-	Total Route	Charac	teristic	5 500	ore	0	15	-
[3] Containment		0 1	2 3		ľ	0*	3	4.3
- .	cteristics Persistence Waste					18 1	18 8	4.4
-	Total Waste	Charac	teristic:	s scc	ore	19	26	
Environme	o Sensitive nt		2 3		3 2	6 2	9	4.5
Distance Intake Do	to Water wnstr e am	12 16 24 30				0		
	Total Target	ts scor	е		· · · · · · · · · · · · · · · · · · ·	8	55	
[6] If line [1] If line [1] :						6.8E	64,350	
[7] Divide line	[6] by 64,3	350 and	multipl	y by	100 5	3 = 1	10.63	

A '*' represents a data gap between the Pre and the Pro

file Name : A:\HALLCON

	PRO Air	Route Work Sheet				
Rating Factor	Assigne	ed Value	Multi plier	Score	Max. Score	Ref. Section
[1] Observed Rel	ease () 45	1	0	45	5.1
Date and Loc Sampling Pro						
		S a = 0, Enter on n proceed to line				
[2] Waste Charact Reactivity a	ind	0 1 2 3	1		3	5.2
Incompatibil Toxicity Hazardous Was Quantity	-	0 1 2 3 0 1 2 3 4 5 6 7	8 1		9 8	
T	otal Route	Characteristics	score		20	
[3] Targets Population 4-Mile Radi		0 9 12 15 1 21 24 27 30	8 1		30	5.3
Distance to Environment	Sensitive		2		6	
Land Use		0 1 2 3	1		3	
	otal Target	s Score			39	
[4] Multiply [1]	X [2] X [3	5]			35,100	
[5] Divide line	[4] by 35,1	.00 and multiply	by 100 S	a =		0

A '*' represents a data gap